Basement Built-In Entertainment Center

Stock cabinets, custom birch plywood bookcases, butcher-block counter and centered TV area

Best for: Homeowners planning a storage-focused basement media wall with lower cabinet doors and flanking display shelves.

Project summary: Six stock cabinet bases form a continuous lower run; two shallow upper towers flank a central TV zone. Gray paint, birch butcher block and architectural trim coordinate the finish.

Skill / timing: Confirm capability with an installer or contractor. Duration depends on site conditions, fabrication method, preparation, finishing and curing requirements.

WORKING REFERENCE DIMENSIONS

Overall design envelope	Approx. 216 in (18 ft) wide; provisional 96 in high. Measure the actual wall.
Base cabinet layout	4 x 36-in modules + 2 x 30-in modules; 6-in end filler allowance on each side (provisional).
Base / countertop	Base modules: 34.5 in high x 24 in deep. Birch top: 25 in deep x 1.5 in thick.
Upper towers	2 towers, each approx. 30 in W x 54 in H x 11.75 in D; shelf levels are illustrative.
TV reference	65-in TCL 65QM6K; ECHOGEAR EGLT3 mount. Verify actual unit, support and access.

MAIN MATERIALS AND SELECTED REFERENCES

Cabinet bases	Hampton Bay KSB36-UF (4) and KSB30-UF (2), unfinished. Selected sink-base configurations; plan interiors separately.
Countertop	Hardwood Reflections BBCT1502598 birch, 98 x 25 x 1.5 in; 3 blanks allocated provisionally. Confirm joint support and final cuts.
Plywood	PureBond 165921 birch, 0.703-in actual thickness; PureBond 165891 thin birch, 0.188 in, for backing. Sheet allocations are provisional.
Cladding & trim	MDF horizontal wall cladding; Woodgrain Millwork 10004429 crown; PrimeLinx 252909 primed face trim; fillers and wood geometric panels. Verify lengths.
Finish & consumables	Sherwin-Williams Westchester Gray SW 2849 color reference; Extreme Bond B51W01150 primer; compatible cabinet topcoat to confirm. Waterlox TB1000 sealer and TB6044 ORIGINAL Satin; Titebond III 1414; DAP Alex Flex 18542.
Hardware & lighting	Amerock BP36764CZ Champagne Bronze pulls (12 in design); 2 rechargeable Smaller Blake brass picture lights. Verify fit and mounting.

TOOLS AT A GLANCE

Tape measure; long or laser level; straightedge and square; pencil and marking tools; saw with suitable guides; drill/driver; clamps; sanding and finishing tools; stud-finding/verification tools; appropriate PPE.

FIELD WORKFLOW / USE WITH THE DRAWINGS AND MODEL

From Layout to Final Check

Use the steps in order and confirm every site-dependent decision before permanent cutting, fastening or electrical work.

BEFORE YOU START

Measure the width at multiple heights, floor level, ceiling height, wall plumb, obstructions and moisture conditions. Identify wall structure, access routes, TV services, door swings and available working space. Confirm local material availability before purchasing.

BUILD SEQUENCE

1	**Measure and lay out** Mark the full cabinet sequence and the central TV axis from the dimensioned drawing; reconcile the 216-in reference with the real wall.
2	**Dry-fit the lower modules** Position the six bases, check level and face alignment, calculate the fillers, confirm door operation, then use an approved fixing method.
3	**Prepare the birch countertop** Confirm seam support and solid-wood movement allowance; mark, cut and dry-fit the sections. Apply the selected Waterlox system per product instructions.
4	**Fabricate the upper towers** Cut and square the birch carcasses; coordinate shelf supports, edge treatment and 0.188-in backing; compare both tower assemblies.
5	**Coordinate the TV surround** Dry-fit tower positions, horizontal cladding, face trim, crown and three geometric panels; verify TV mount access before enclosing anything.
6	**Finish the visible surfaces** Clean, fill, prepare and prime by substrate; apply a compatible topcoat in the approved gray color; protect the natural wood and allow proper cure.
7	**Complete functional fittings** Mount the TV only after verified support and electrical review; position rechargeable picture lights and fit the Champagne Bronze pulls.
8	**Style and inspect** Arrange modest books, greenery and ceramic accents; check shelf load, doors, countertop joints, trim, lighting, TV access and finished surfaces.

SHOPPING NOTES

The cabinet variants, timber materials, coatings, hardware and lights above are retained product references, not a site-verified shopping cart. Check current specifications and local availability. Reconcile plywood yield, countertop cuts, trim lengths, filler dimensions, fasteners and internal shelf hardware before purchasing.

SAFETY AND SITE CHECKS

Do not treat decorative MDF, cabinet backs or the drawing/model as proof of structural support. Verify cabinet/tower anchorage, shelf loading, TV bracket fixing, cable access and electrical method for the actual construction. Obtain qualified structural or electrical help where required. Basement humidity and wood movement can affect the materials and countertop joints.

COMPANION PROJECT FILES

The article has separate technical file references: editable DXF drawing; dimensioned drawing PDF; downloadable STEP 3D model; 3D model review PDF. This card contains no hyperlinks or embedded files.

USE THIS CARD AS

A field-measurement, materials-reconciliation and build-sequence reference. It is **not** a final cut list, site survey, mounting design, engineering approval or electrical specification.